

## **Appendix C**

### **The Army Wheeled Vehicle Fleet Classification System**

#### **C-1. Classification System Categories**

The Army Wheeled Vehicle Fleet Classification System categorizes Army tactical wheeled vehicles using the Commercial Driver's License (CDL) structure as Classes A, B, or C, with vehicles outside of that system specifically identified as class D. Table C-1 contains a list of all Army wheeled vehicles by model or type which fall into each of the respective classes discussed below.

#### **C-2. Certain driving circumstances may require a CDL**

A DA civilian operating a Class D vehicle normally does not require a CDL. However, when these vehicles are used to haul hazardous materials or to transport 16 or more passengers including the driver, they are automatically classified as Class C vehicles and the driver requires a CDL. An M35A2 cargo truck is normally a Class D vehicle, but under some circumstances it is classified as a Class C vehicle and the driver must have a Class C CDL with the required endorsements. Examples of this are:

- a. When it is used to transport passengers.
- b. When it is used to transport ammunition in quantities that require placarding.
- c. When a tank and pump unit (TPU) is mounted in the cargo bed.

#### **C-3. There are four basic classes of wheeled vehicles:**

- a. *Class A.* Any combination of vehicles with a Gross Combination Weight Rating (GCWR) of 26,001 or more pounds provided the Gross Vehicle Weight Rating (GVWR) of the vehicle or vehicles being towed exceeds 10,000 pounds.
- b. *Class B.* Any single vehicle with a GVWR of 26,001 or more pounds, or any such vehicle towing a vehicle not in excess of 10,000 pounds GVWR.
- c. *Class C.* Any single vehicle, or combination of vehicles, that meets neither the definition of Class A or Class B as defined above, but that is either designed to transport 16 or more passengers including the driver, or is used to transport hazardous materials which require the vehicle to be placarded under Hazardous Materials Regulations (49 CFR part 172).
- d. *Class D.* Those vehicles outside of the current CDL classification system (all others). Certain endorsements and restrictions apply, as discussed below.

#### **C-4. Four kinds of endorsements that may be required**

There are four kinds of endorsements that may be required. These depend on the type of equipment being driven or the type of cargo transported.

- a. *Tank vehicles.* Drivers of vehicles used to haul liquids in bulk must have specialized knowledge and skills to drive safely. Liquids in bulk cause driving control problems because the cargo is heavy, shifts, and has a high center of gravity. These drivers must obtain tanker endorsements to their licenses showing they have passed a written examination and a performance test on the special problems posed by large volume liquid cargo.
- b. *Passengers.* Any driver operating a vehicle designed to transport 16 or more passengers, including the driver, must have a passenger endorsement. He or she must pass a written examination on special safety considerations when transporting passengers. An applicant for a license to drive a bus in any category must have this endorsement.
- c. *Hazardous materials.* Any driver hauling hazardous material or waste in amounts requiring placards, regardless of the vehicle class, must have a hazardous material endorsement. He or she must pass a written examination on how to recognize, handle, and transport hazardous materials.

#### **C-5. Two restrictions in the classification scheme**

There are two restrictions in the classification scheme. These reflect the type of braking and transmission systems on the vehicle being driven.

- a. *Air brakes.* Most drivers of heavy vehicles will have trucks or buses equipped with air brakes. These drivers must pass a written examination dealing with the operation and critical parts of air brake systems. All Class A vehicles and most Class B vehicles have air brakes. Drivers of vehicles without air brakes (or those who do not pass the air brakes test or test on a vehicle without air brakes) will have a restriction placed on the CDL showing that they are not qualified to operate a vehicle with air brakes.
- b. *Manual transmission.* Some Class A and B vehicles have manual transmissions. However, most Class A and B vehicles have automatic or semiautomatic transmissions. Driving a heavy motor vehicle with a manual transmission requires more knowledge and skill than driving vehicles with automatic transmissions. Therefore, any applicant who takes the CDL performance test in a vehicle with an automatic transmission will have a restriction placed on the license showing that he or she is not qualified to operate vehicles with manual transmissions.

**Table C-1**  
**The Army Wheeled Vehicle Fleet Classification System (M Series Only)**

Vehicle	Brakes	Trans	Endorsement	Class
MOTORCYCLES, ATVs, MOPEDS (ALL MODELS)	NA	NA	NA	D
M35, A1, A2, A2C	AIR/HYD	MAN	AIR	D
M36, M36C, M36A2	AIR/HYD	MAN	AIR	D
M37, B1	HYD	MAN	NONE	D
M38, A1, A1C, A2C	HYD	MAN	NONE	D
M43, B1	HYD	MAN	NONE	D
M44, A2	AIR/HYD	MAN	AIR	D
M45, A2	AIR/HYD	MAN	AIR	D
M48	AIR/HYD	MAN	AIR	A
M49C, A1C, A2C	AIR/HYD	MAN	AIR	C
M50, A1, A2, A3	AIR/HYD	MAN	AIR	D
M51	AIR/HYD	MAN	AIR	B
M51A1, A2	AIR/HYD	MAN	AIR	B
M52, A1, A2	AIR/HYD	MAN	AIR	A
M54, A1, A1C, A2, A2C	AIR/HYD	MAN	AIR	B
M55, A1, A2	AIR/HYD	MAN	AIR	B
M62	AIR/HYD	MAN	AIR	A
M108	AIR/HYD	MAN	AIR	A
M109, A1, A2, A3	AIR/HYD	MAN	AIR	D
M123, C, A1C, E2	AIR/HYD	MAN	AIR	A
M125A1	AIR	MAN	AIR	B
M151, A1, A1C, A2	HYD	MAN	NONE	D
M170	HYD	MAN	NONE	D
M185, A1, A2, A3	AIR/HYD	MAN	AIR	D
M201, B1	HYD	MAN	NONE	D
M246, A1, A2	AIR/HYD	MAN	AIR	A
M274, A1-A5	MECH	MAN	NONE	D
M275, A1, A2	AIR/HYD	MAN	AIR	A
M291A1, A1C, A1D, A2C	AIR/HYD	MAN	AIR	B
M292, A1, A2	AIR/HYD	MAN	AIR	B
M292A5	AIR/HYD	MAN	AIR	D
M328A1	AIR/HYD	MAN	AIR	B
M342A2	AIR/HYD	MAN	AIR	D
M520	AIR	AUTO	AIR	B
M543, A1, A2	AIR/HYD	MAN	AIR	A
M553	AIR	AUTO	AIR	A
M559	AIR	SEMI	AIR	B
M561	HYD	MAN	NONE	D
M656	AIR	AUTO	AIR	B
M708, A1	HYD	MAN	NONE	D
M711	HYD	MAN	NONE	D
M715, M725	HYD	MAN	NONE	D
M718, M718A1	HYD	MAN	NONE	D
M726	HYD	MAN	NONE	D
M746	AIR	AUTO	AIR	A
M748A1	AIR/HYD	MAN	AIR	B
M751A1	AIR/HYD	MAN	AIR	D
M756A2	AIR/HYD	MAN	AIR	D
M757	AIR	MAN	AIR	A
M764	AIR/HYD	MAN	AIR	D
M791	AIR	MAN	AIR	B
M792	HYD	MAN	NONE	D
M812A2	AIR/HYD	MAN	AIR	A
M813, A1	AIR/HYD	MAN	AIR	B
M814	AIR/HYD	MAN	AIR	B
M815	AIR/HYD	MAN	AIR	B
M816	AIR/HYD	MAN	AIR	A
M817	AIR/HYD	MAN	AIR	B
M818	AIR/HYD	MAN	AIR	A
M819	AIR/HYD	MAN	AIR	A
M820, A2	AIR/HYD	MAN	AIR	B
M821	AIR/HYD	MAN	AIR	B
M825	HYD	MAN	NONE	D
M876	AIR	AUTO	AIR	B
M877	AIR	SEMI	AIR	B
M878, A1	AIR	AUTO	AIR	A
M880 THRU 886	HYD	AUTO	NONE	D
M888	COMB	AUTO	NONE	D
M890 THRU 893	HYD	AUTO	NONE	D
M911	AIR	AUTO	AIR	A
M915	AIR EXH	SEMI	AIR	A

**Table C-1**  
**The Army Wheeled Vehicle Fleet Classification System (M Series Only)—Continued**

Vehicle	Brakes	Trans	Endorsement	Class
M915A1	AIR EXH	AUTO	AIR	A
M916	AIR EXH	SEMI	AIR	A
M917	AIR EXH	SEMI	AIR	B
M918	AIR EXH	SEMI	AIR	B
M919	AIR EXH	SEMI	AIR	B
M920	AIR EXH	SEMI	AIR	A
M923, A1, A2	AIR	AUTO	AIR	B
M924, A1	AIR	AUTO	AIR	B
M925, A1, A2	AIR	AUTO	AIR	B
M926, A1	AIR	AUTO	AIR	B
M927, A1, A2	AIR	AUTO	AIR	B
M928, A1, A2	AIR	AUTO	AIR	B
M929, A1, A2	AIR	AUTO	AIR	B
M930, A1, A2	AIR	AUTO	AIR	B
M931, A1, A2	AIR	AUTO	AIR	A
M932, A1, A2	AIR	AUTO	AIR	A
M934, A1, A2	AIR	AUTO	AIR	B
M935, A1, A2	AIR	AUTO	AIR	B
M936, A1, A2	AIR	AUTO	AIR	A
M966	HYD	AUTO	NONE	D
M977, 978	AIR	AUTO	AIR	B
M983	AIR	AUTO	AIR	A
M984, A1	AIR	AUTO	AIR	A
M985	AIR	AUTO	AIR	B
M996 THRU 998	HYD	AUTO	NONE	D
M1001, 1002	AIR	MAN	AIR	A
M1013, 1014	AIR	MAN	AIR	A
M1008, A1	HYD	AUTO	NONE	D
M1009, 1010	HYD	AUTO	NONE	D
M1025, 1026	HYD	AUTO	NONE	D
M1028	HYD	AUTO	NONE	D
M1035 THRU 1038	HYD	AUTO	NONE	D
M1024 THRU 1046	HYD	AUTO	NONE	D
M1067	AIR	AUTO	AIR	A
M1070	AIR	AUTO	AIR	A
V17A/MTQ	AIR/HYD	MAN	AIR	D
V18A/MTQ	AIR/HYD	MAN	AIR	D
V18B/MTQ	AIR/HYD	MAN	AIR	D

## Appendix D

### Physical Evaluation Measures

#### D-1. Evaluation objectives

Physical evaluation measures will ensure that all operators of motor vehicles possess at least minimum physical requirements for safe driving. In addition, they are intended for diagnostic, guidance, and counseling purposes.

#### D-2. Equipment

The driver testing and training device contains all the materials and instructions necessary to conduct the physical evaluation measures listed in this appendix. (See SB 700-20 for current model number and procurement instructions.) Equivalent testing instruments may be constructed locally, provided they are made to measure accurately the physical characteristics as prescribed.

#### D-3. Testing conditions

The general conditions of the test situation will be as prescribed in AR 611-5, Section III. In addition, the rooms in which the tests are given must be well lighted (without glare) and well ventilated. The examinee should be made comfortable in order that physical discomfort will not affect test results. If it is necessary to test more than one examinee at a time, and if the same room is used for more than one test, testing should be conducted so as to minimize distractions. The reaction time test must be given under conditions which are free from noise and other distractions.

#### D-4. Supplementary instructions to examiners

The following instructions apply to all measures of physical abilities and supplement the specific instructions accompanying the equipment.